

## 1 mm Coaxial Attenuator, 12 dB Attenuation

### Description:

**Model SCA-12-1M1F-S1** is a 12 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 110 GHz. While the attenuator is designed and fabricated for full 1 mm coaxial band applications, the attenuation value of this model will have a wide range due its broadband coverage. Various attenuation values are available under different model numbers.



### Features:

- Broad Band Coverage
- Low Cost

### Applications:

- Test Lab
- Instrumentations
- System Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	DC		110 GHz
Attenuation		12 dB	
Flatness		±1.5 dB	
Return Loss		10 dB	
Power Handling			27 dBm
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

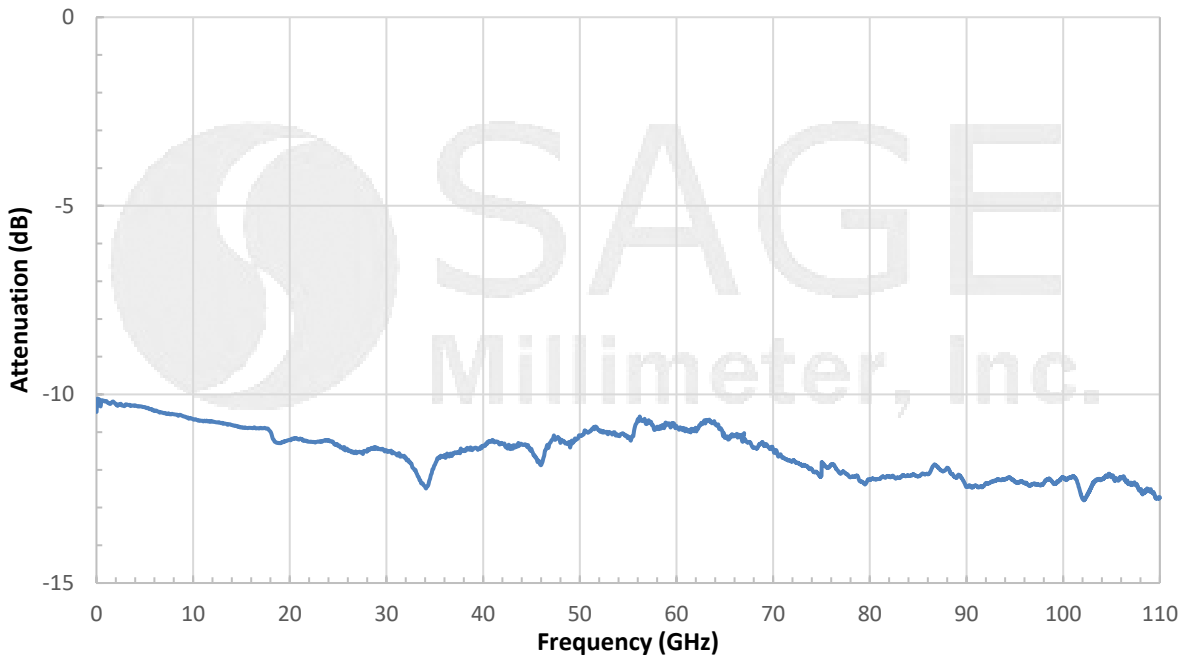
### Mechanical Specifications:

Item	Specification
Connector 1 Type	1 mm Male
Connector 2 Type	1 mm Female
Housing Material	Aluminum
Housing Finish	Gold Plated
Weight	0.25 Oz
Dimensions	0.40" (W) X 1.14" (L) X 0.40" (H)
Outline	CA-1

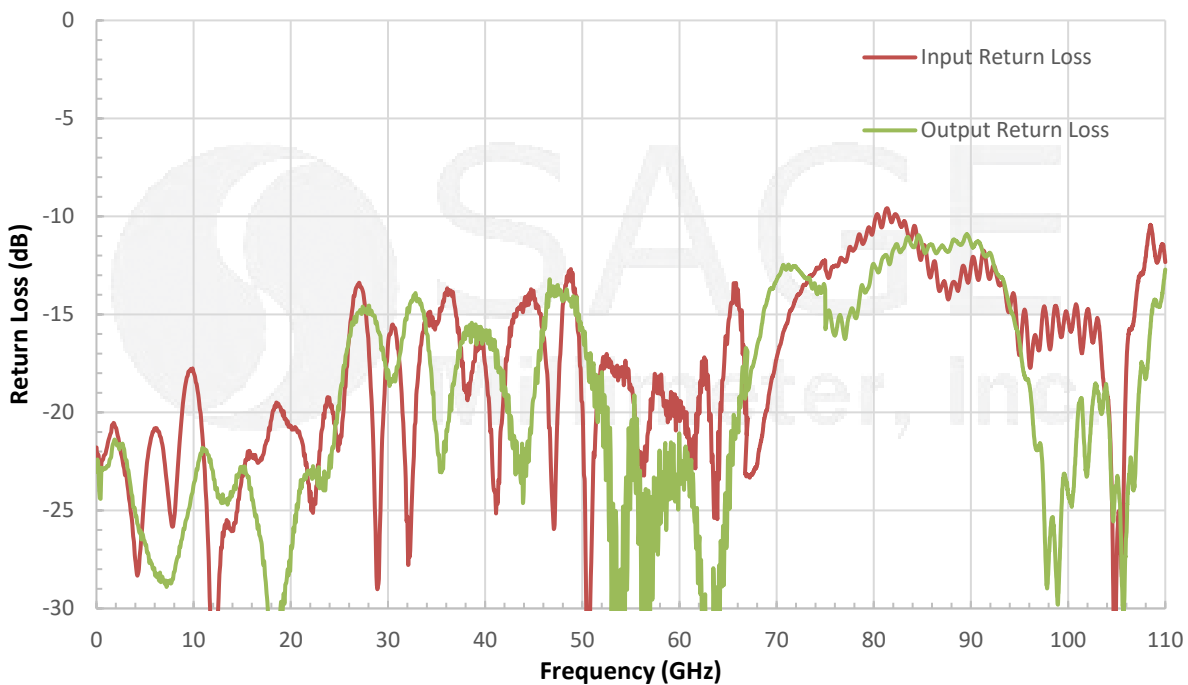


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### Typical Attenuation Vs Frequency

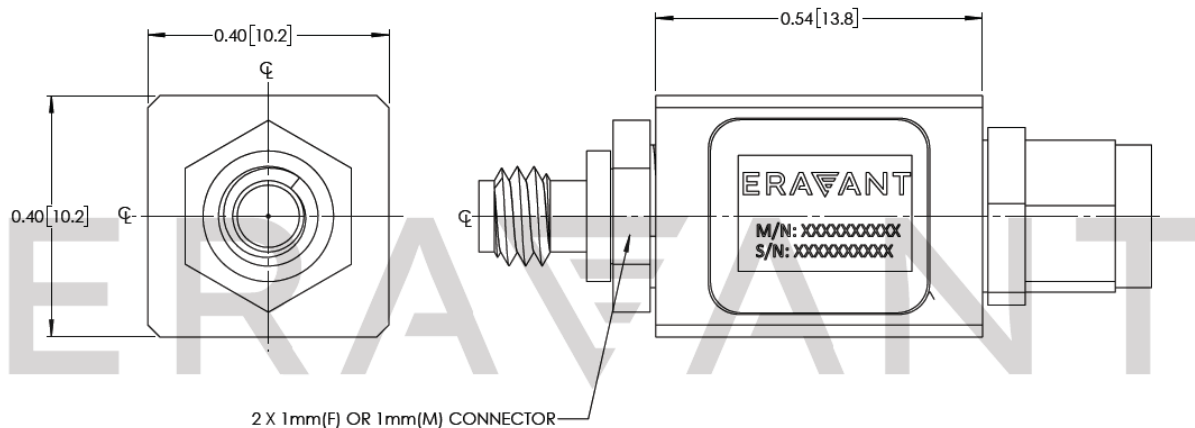


### Typical Return Loss Vs Frequency



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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



### Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25°C case temperature.
- Eravant reserves the right to change the information presented without notice.

### Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque,  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**

